IBM Personal System/2 Model 50 Z

All work, no wait

With IBM Personal System/2® Model 50 Z, the "Z" means "zero wait states"—which translates to faster, more efficient personal computing for you. This new PS/2® gives you all the advantages of the popular Model 50 and many extras: faster processing...greater storage capability... and more room to grow.

Whether you use Model 50 Z as a stand-alone system or make it part of your office network, you'll be set to push productivity to impressive heights.

Handle more than one task at a time. Model 50 Z's 80286 microprocessor, one megabyte of memory, and 30Mb or 60Mb fixed disks add up to plenty of computing power. And you can apply that power to support advanced productivity programs of every kind.

What's more, you're not confined to single applications with this system. You can take advantage of IBM Operating System/2™—and Model 50 Z's Micro Channel™ Architecture—to handle more than one task at a time.

You can, for example, carry out a data base search while creating a report with a word processing program. Keep several accounting files active in memory—and quickly switch among them to compare bottom lines. Build graphics and text with two separate programs and view both on-screen at the same time.

Take advantage of resources beyond your workstation. With Model 50 Z and your choice of PS/2 connectivity options, you can make use of computing resources throughout your company. You can send a document to be printed on your network's printer while accepting data from a colleague across the hall. Or even hold communications sessions with more than one host computer at a time.

Highlights

Like all PS/2 models, Model 50 Z is based on advanced technology that pays off in superior performance and provides a platform for future growth. This PS/2 also arrives with a wealth of integrated features and functions that give you a versatile computing solution right from the start.

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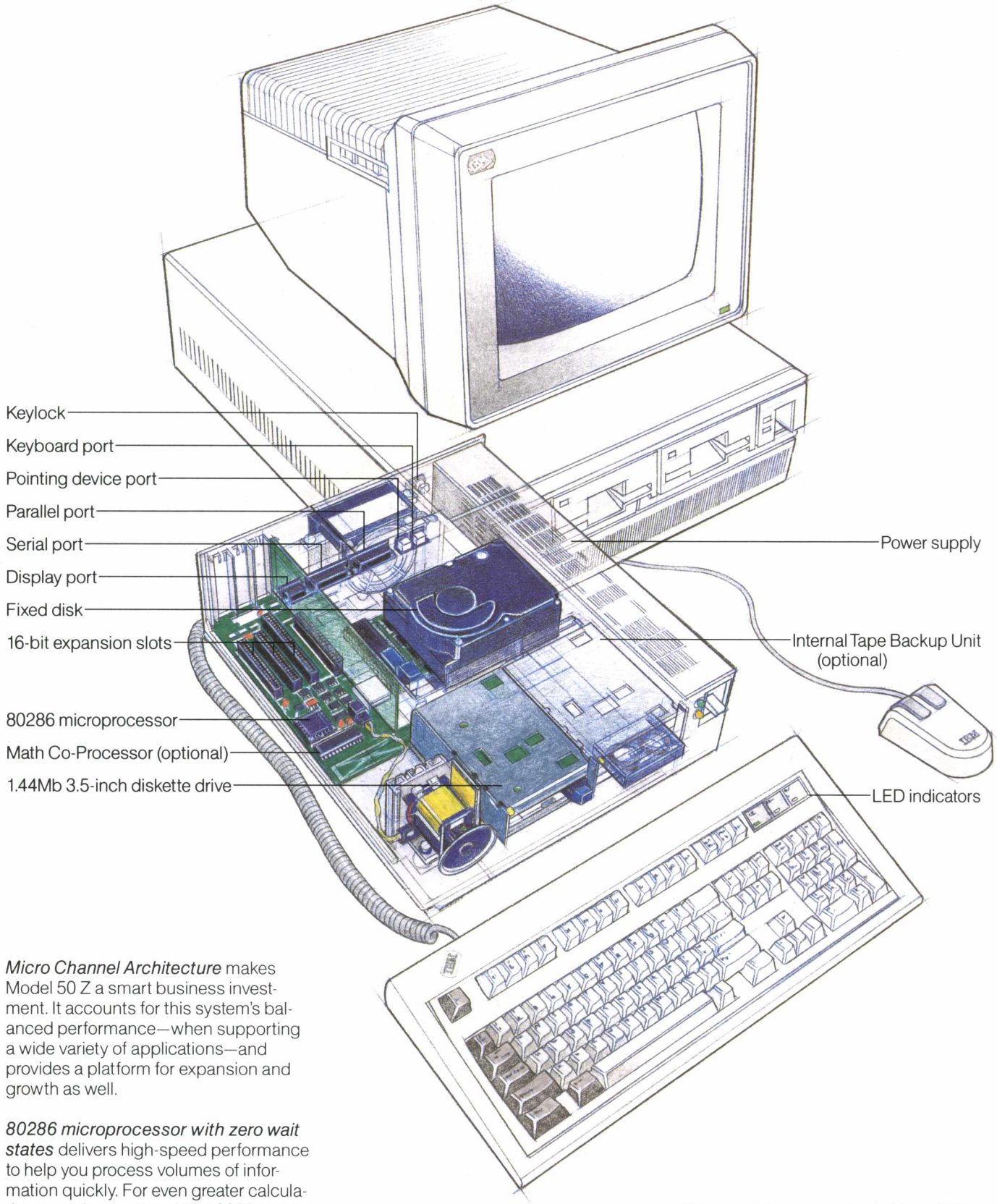

Micro Channel Architecture makes Model 50 Z a smart business investment. It accounts for this system's balanced performance—when supporting a wide variety of applications—and provides a platform for expansion and growth as well.

80286 microprocessor with zero wait states delivers high-speed performance to help you process volumes of information quickly. For even greater calculation speed, an optional IBM 80287 Math Co-Processor can be installed.

1Mb user memory—expandable to 2Mb on the system board and to 16Mb with memory expansion options—gives you plenty of room to work with lengthy programs.

30Mb or 60Mb fixed disks provide ready-access storage for more than 15,000 or 30,000 pages[1] of information.

1.44Mb diskette drive lets you easily load files and programs stored on the 3.5-inch diskettes used with Model 50 Z. Compact and durable, each high-density diskette can hold as many as 720 pages[1] of information.

Integrated functions give you significant capability from the start. Model 50 Z comes ready with advanced color and

IBM Personal System/2 Model 50 Z at a glance

Machine numbers	8550-031	8550-061
80286 microprocessor	10 MHz, 0 wait states	10 MHz, 0 wait states
Optional 80287 Math Co-Processor	10 MHz	10 MHz
Memory (RAM)		
Standard	1Mb (85ns)	1Mb (85ns)
Maximum on system board	2Mb	2Mb
System maximum	16Mb	16Mb
Integrated functions	128Kb permanent memory (ROM), Video Graphics Array (VGA), and display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar	
System expansion	Three available expansion slots	
Operating systems	DOS 3.3 or 4.0, IBM Operating System/2	
Storage		
1.44Mb 3.5-inch diskette drives		
Standard	1	1
Maximum	2	2
Fixed disk		
Standard	30Mb (39ms)	60Mb (27ms)
Maximum	60Mb	60Mb
Optional	Either a second 1.44Mb diskette drive or IBM 5.25" External Diskette Drive or IBM Personal System/2 Internal Tape Backup Unit; IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive	
Text/graphics support	VGA supports 640 x 480 graphics mode plus all CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)	
Display modes	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)	
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable	
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Displays 8503 and 8507	
Supported printers	IBM Proprinter™ family, IBM Quietwriter® printers, IBM Pageprinter, IBM Color Jetprinter, IBM Quickwriter™ Printer	
Communications support	IBM Token-Ring Network Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiport/2	
Power supply	94-watt worldwide autosensing and autoswitching	
Size	Approx. 5.5"H x 14"W x 16"D (140mm x 360mm x 420mm); 21 lbs. (9 kg)	

graphics capabilities—plus built-in support for your display, printer, keyboard, even for a modem and pointing device. All these features are packed into just a few components—making Model 50 Z both streamlined and reliable.

Built-in Video Graphics Array (VGA) capabilities provide videolike clarity for business graphics, text, even digitized photos. These advanced capabilities result in a screen image that's brilliant and natural looking. VGA also supports CGA, EGA and MCGA graphics and text.

A palette of over 256,000 colors plus 64 shades of gray is built in to add interest and impact to your reports and presentations. Up to 256 colors can be viewed at a time—and colors automatically convert to up to 64 shades of gray on a monochrome display.

Three expansion slots let you customize Model 50 Z as your computing needs change.

Switchless setup means all you do is connect your system and begin. Convenient ports and plugs keep things simple.

Superior analog displays offer you a choice of price and function. Whether you need crisp monochrome text or vivid, detailed color graphics, you'll find the right display to suit your work and your budget.

Wide range of communications options makes Model 50 Z right for use within a number of networks and larger system environments.

What you get

IBM Personal System/2 Model 50 Z is packaged in two cartons, one containing the system unit. The other contains:

- One-page customer setup sheet
- System unit power cord
- Keyboard and cable
- Quick reference manual
- System reference diskette with tutorial and diagnostics
- Technical directory

Options

Model 50 Z supports a wide array of optional devices. What follows is a listing of some of the options available for Model 50 Z:

- IBM Personal System/2 80287 Math Co-Processor (10 MHz)
- IBM 80286 Memory Expansion Option

- IBM Personal System/2 0-8Mb Expanded Memory Adapter/A
- IBM 2Mb Memory Module Kit
- IBM Personal System/2 Mouse
- IBM 60Mb Fixed Disk Drive
- IBM Personal System/2 5.25" External Diskette Drive Models 4869-001 (360Kb) and -002 (1.2Mb)
- IBM Personal System/2 Data Migration Facility
- IBM Personal System/2 Internal Tape Backup Convenience Kit
- IBM 6157 Streaming Tape Drive
- IBM 3363 Optical Disk Drive
- IBM 300/1200 Internal Modem/A
- IBM Dual Async Adapter/A
- IBM Multi-Protocol Adapter/A
- IBM 3270 Connection
- IBM System 36/38 Workstation Emulation Adapter
- IBM Token-Ring Network Adapter/A
- IBM PC Network Adapter II/A
- IBM PC Network Baseband Adapter/A
- IBM Personal System/2 3117 Adapter/A
- IBM Personal System/2 High Speed Adapter/A

Warranty/Service

Every IBM product is built to meet high standards of quality and reliability. So you can count on Model 50 Z to perform smoothly year after year.

Model 50 Z is backed by a one-year limited warranty. And extended service terms are available from IBM and from IBM Authorized Advanced Products Dealers.

With an IBM Maintenance Agreement, you can arrange for on-site service.

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[1] *8½ x 11-inch, double-spaced typewritten pages.*

IBM Personal System/2 Model 50 Z features

Feature	Function	Benefit
Intel 80286 microprocessor	Processes data at a clock speed of 10 MHz	Enhanced performance contributing to greater system throughput
Zero wait states	Gives processor instant access to information from memory	Faster, more efficient personal computing
1Mb of memory (RAM), expandable to 16Mb with expansion options	Provides electronic workspace for programs and files, and/or for multiple applications	Rapid data processing; support for advanced applications, including multitasking
Micro Channel Architecture	Delivers rapid processing and throughput	Fast, efficient, balanced system performance; foundation for future growth
Integrated functions and streamlined design	Include 128Kb of permanent memory containing security features and Advanced BIOS functions; pack more capabilities into fewer components on the system board; reduce footprint; eliminate internal cables	Data and program security; support for concurrent operations; easy setup, operation and expansion; better price/performance; enhanced reliability
Internal fixed disk drives	Provide 30Mb or 60Mb of storage for up to 15,000 or 30,000 pages[1] of information; 27ms or 39ms average access (based on model); user-selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications and data bases; enhanced throughput via reduced storage and retrieval time on fixed disk
1.44Mb 3.5-inch diskette drive	Stores up to 720 pages[1] of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Built-in VGA capabilities	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome); support for new modes of display	High-quality, high-detail graphics and text; improved on-screen readability
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
Network and host emulation capabilities	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch external diskette drive options	Provide capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360Kb, 720Kb and 1.2 Mb diskettes
200Mb optical disk drive option	Writes once, reads many times; holds up to 100,000 pages[1] of information on one cartridge	Fixed disk backup; large permanent storage; removable media for archiving
Tape drive options	Save/restore fixed disk data	Fixed disk backup and file restoration; removable media for archiving
IBM support and service	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM

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